ATTACHMENT B
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) Method for ~~the~~ interactive control of a plastics material injection molding machine, where, via an input unit ~~(10)~~, which is provided with actuating fields, operating parameters necessary for ~~the~~an ~~working~~operating sequence of a machine are input, in a form which prompts ~~the~~ an operator, into a data processing unit ~~(12)~~ which stores these operating parameters, and subsequently one or more operating sequences are carried out in accordance with the stored operating parameters, wherein a data set covering ~~the~~ basic rules of the ~~working~~operating sequence of the machine is recorded in the data processing unit ~~(12)~~ and, by using the data set, as a result, the operator is provided on a surface ~~(16)~~ with visualization of a selected choice of input possibilities, based on ~~the~~ a machine configuration and ~~the~~ a machine environment, for additional parts of the ~~working~~operating sequence that can be added in a compatible manner into ~~the~~ existing parts of the ~~working~~operating sequence, wherein for manual input and/or for input by means of a manipulator ~~(38)~~, the input unit ~~(10)~~ makes available to the operator on the surface ~~(16)~~ a selected choice of actuating fields corresponding to the additional parts of the operating sequence and for navigation on a navigation surface statically arranged on the surface ~~(16)~~,

~~characterized~~wherein ~~in that~~ the navigation surface ~~(20)~~ comprising at least three lines or three columns of actuating and input fields is hierarchical from line to line or column to column~~,~~ and is represented on the surface ~~(16)~~ with a plurality of navigation levels associated with one another.

2. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ the actuating fields are imaged as input fields ~~(14)~~.

3. (Currently Amended) Method according to claim 1 ~~or 2~~, ~~characterized~~wherein ~~in that~~ the hierarchical navigation surface ~~(20)~~ is represented with three lines.

4. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ a parameter region ~~(22)~~ is represented on the surface ~~(16)~~ for ~~the~~ numeric and/or graphic representation of operating parameters.

5. (Currently Amended) Method according to ~~one of the previous~~ claim 1~~s~~, ~~characterized~~wherein ~~in that~~ in addition to the navigation levels, a sequence editor ~~(24), which~~ represent~~s~~ing the operating sequence in a schematic manner~~,~~ is represented on the surface ~~(16)~~.

6. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ the operating sequence comprises sequence symbols and when a sequence symbol ~~(26)~~ is tapped, ~~the~~ parameter images associated with the sequence symbol ~~(26)~~ are displayed on the respective navigation level.

7. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~, the navigation levels comprise at least one top navigation level and at least one bottom navigation level and when three navigation levels are provided, the at least one top navigation level~~s are~~is represented symbolically in one line, whilst the at least one bottom navigation level is represented completely in the additional lines.

8. (Currently Amended) Method according ~~to one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ the operating sequence comprises sequence symbols and in the event of an alarm, the sequence symbols ~~(26)~~ of the ~~working~~operating sequence relating to the alarm are identified and ~~in that~~wherein tapping the sequence symbols leads to the representation of ~~the~~ a relevant parameter region.

9. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ favorite fields ~~(32)~~ are preset or are presettable on the

surface ~~(16)~~ by the user and when actuated ~~these~~ favorite fields lead to a jump, independent of the navigation, to a preset or presettable parameter group.

10. (Currently Amended) Method according to claim 9, ~~characterized~~wherein ~~in that~~ when the favorite field ~~(32)~~ is actuated, the parameter image edited last in the associated parameter group is displayed.

11. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ tables ~~(34)~~ are represented on the surface ~~(16)~~ for ~~the~~ inputting ~~of~~ operating parameters and ~~in that~~wherein, from these, a preferably non-editable graphic representation of the required values converted therefrom is generated.

12. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ an editable input diagram ~~(36)~~ is represented on the surface ~~(16)~~.

13. (Currently Amended) Method according to claim ~~11 or~~ 12, ~~characterized~~wherein ~~in that~~ the representation of the input of the operating parameters for the various directions of axes displacement ~~of the axes~~ is effected in the direction of axes displacement ~~of the axes~~.

14. (Currently Amended) Method according to ~~one of the previous~~ claims 1, ~~characterized~~wherein ~~in that~~ the method is carried out on a cyclically operating plastics material injection molding machine.

15. (Currently Amended) Apparatus for ~~the~~ interactive control of a plastics material injection molding machine, having

- a data processing unit ~~(12)~~,
- an input unit ~~(10)~~ with fields arranged on a surface ~~(16)~~ for ~~the~~ manual input and/or for ~~the~~ input by means of a manipulator ~~(38)~~, by means of which fields, in a form which prompts ~~the~~ an operator, ~~the~~ operating parameters necessary for ~~the~~ an

operating sequence of the machine can be input into the data processing unit ~~(12)~~ which stores the operating parameters for ~~the~~ subsequently carrying out ~~of~~ one or more operating sequences in accordance with the stored operating parameters, wherein the fields are actuating fields for navigation on a navigation surface statically arranged on the surface ~~(16)~~,

- a data set recorded in the data processing unit ~~(12)~~ and covering ~~the~~ basic rules of the operating sequence of the machine,
- using the data set and as a result, a selected choice, offered to the operator displayed on a surface ~~(16)~~, of possible input possibilities, based on ~~the~~ machine configuration and machine environment, for additional parts of the operating sequence that can be added in a compatible manner into ~~the~~ existing parts of the operating sequence,

~~characterized~~wherein ~~in that~~ the navigation surface ~~(20)~~ comprises at least three lines or at least three columns of actuating and input fields and is hierarchical from line to line or column to column and comprises a plurality of navigation levels associated with one another.

16. (Currently Amended) Apparatus according to claim 15, ~~characterized~~wherein ~~in that~~ the actuating fields are imaged as input fields ~~(14)~~.

17. (Currently Amended) Apparatus according to claim 15 ~~or 16~~, ~~characterized~~wherein ~~in that~~ the hierarchical navigation surface ~~(20)~~ includes three lines.

18. (Currently Amended) Apparatus according to ~~one of~~ claims 15 ~~to 17~~, ~~characterized~~wherein ~~in that~~ a parameter region ~~(22)~~ is provided on the surface ~~(16)~~ for ~~the~~ numeric and/or graphic representation of the operating parameters.

19. (Currently Amended) Apparatus according to ~~one of~~ claims 15 ~~to 18~~, ~~characterized~~wherein ~~in that~~ in addition to the navigation levels, a sequence editor ~~(24)~~

representing the operating sequence in a schematic manner is provided on the surface ~~(17)~~.

20. (Currently Amended) Apparatus according to ~~one of~~ claims ~~15 to 19~~, ~~characterized~~wherein ~~in that~~, the navigation levels comprise at least one top navigation level and at least one bottom navigation level and when three navigation levels are provided, ~~the~~ sequence symbols for the at least one top navigation level is ~~are~~ provided in one line, whilst ~~the~~ elements of the at least one bottom navigation level where necessary are provided completely in the additional lines.

21. (Currently Amended) Apparatus according to ~~one of the previous~~ claims ~~15 to 20~~, ~~characterized~~wherein ~~in that~~ identification means are provided for identifying sequence symbols ~~(26)~~ of the operating sequence related to an alarm

22. (Currently Amended) Apparatus according to ~~one of~~ claims ~~15 to 21~~, ~~characterized~~wherein ~~in that~~ preset favorite fields ~~(32)~~ or favorite fields ~~(32)~~ that are presettable by the user are provided on the surface ~~(16)~~, said favorite fields being provided as jump keys for a jump independent of the navigation to a preset or presettable parameter group.

23. (Currently Amended) Apparatus according to claim 22, ~~characterized~~wherein ~~in that~~ a linking of the jump keys with ~~the~~ a parameter image last edited within the associated parameter group is provided.

24. (Currently Amended) Apparatus according ~~to one of~~ claims ~~15 to 23~~, ~~characterized~~wherein ~~in that~~ a non-editable graphic representation of ~~the~~ required values converted from the input parameters and/or an editable input diagram ~~(36)~~ is provided on the surface ~~(16)~~.

25. (Currently Amended) Data carriers having a program for the accomplishment of the method according to ~~one of~~ claims ~~1 to 14~~.